

## ***Amendments to the Specification***

Please amend the paragraph 0065 of the original Specification as follows:

[0065] For example, scroll or rate control regions 62a 72a and 62b 72b can be used to provide input to perform a rate control task, such as scrolling documents, adjusting a value (such as audio volume, speaker balance, monitor display brightness, etc.), or panning/tilting the view in a game or virtual reality simulation. Region 62a 72a can be used by placing a finger (or other object) within the region, where the upper portion of the region will increase the value, scroll up, etc., and the lower portion of the region will decrease the value, scroll down, etc. In embodiments that can read the amount of pressure placed on the pad 16, the amount of pressure can directly control the rate of adjustment; e.g., a greater pressure will cause a document to scroll faster. The region 62b 72b can similarly be used for horizontal (left/right) scrolling or rate control adjustment of a different value, view, etc.

Please amend the paragraph 0066 of the original Specification as follows:

[0066] Particular haptic effects can be associated with the control regions 62a 72a and 62b 72b. For example, when using the rate control region 62a 72a or 62b 72b, a vibration of a particular frequency can be output on the pad 16. In those embodiments having multiple actuators, an actuator placed directly under the region 62a 72a or 62b 72b can be activated to provide a more localized tactile sensation for the "active" (currently used) region. As a portion of a region 62 72 is pressed for rate control, pulses can be output on the pad (or region of the pad) to indicate when a page has scroll by, a particular value has passed, etc. A vibration can also be continually output while the user contacts the region 62a 72a or 62b 72b.

Please amend the paragraph 0067 of the original Specification as follows:

[0067] Other regions 64 74 can also be positioned on the touchpad 16. For example, each of regions 64 74 provides a small rectangular area, like a button, which the

user can point to in order to initiate a function associated with the pointed-to region. The regions 64 74 can initiate such computer functions as running a program, opening or closing a window, going "forward" or "back" in a queue of web pages in a web browser, powering the computer 10 or initiating a "sleep" mode, checking mail, firing a gun in a game, cutting or pasting data from a buffer, selecting a font, etc. The regions 64 74 can duplicate functions and buttons provided in an application program or provide new, different functions.

Please amend the paragraph 0068 of the original Specification as follows:

[0068] Similarly to regions 62 72, the regions 64 74 can each be associated with haptic sensations; for example, a region 64 74 can provide a pulse sensation when it has been selected by the user, providing instant feedback that the function has been selected. Furthermore, the same types of regions can be associated with similar-feeling haptic sensations. For example, each word-processor related region 64 74 can, when pointed to, cause a pulse of a particular strength, while each game-related region can provide a pulse of different strength or a vibration. Furthermore, when the user moves the pointing object from one region 62 72 or 64 74 to another, a haptic sensation (such as a pulse) can be output on the pad 16 to signify that a region border has been crossed.

Please amend the paragraph 0070 of the original Specification as follows:

[0070] It should be noted that the regions 62 72 and 64 74 need not be physical regions of the touchpad 16. That is, the entire touchpad 16 surface need merely provide coordinates of user contact to the processor of the computer and software on the computer can designate where different regions are located. The computer can interpret the coordinates and, based on the location of the user contact, can interpret the touchpad input signal as a cursor control signal or a different type of signal, such as rate control, button function, etc. The local touchpad microprocessor, if present, may alternatively interpret the function associated with the user contact location and report appropriate signal or data to the host processor (such as position

coordinates or a button signal), thus keeping the host processor ignorant of the lower level processing. In other embodiments, the touchpad 16 can be physically designed to output different signals to the computer based on different regions marked on the touchpad surface that are contacted by the user; e.g. each region can be sensed by a different sensor or sensor array.